

- 29 -

We claim:

1. A method of entering and manipulating data in a computer device, comprising:

providing a wearable device 10 and attaching the
5 wearable device 10 to a hand 212, the device 10 having a lower unit 14 placed in a palm 106 of the hand and an upper unit 16 placed behind knuckles 17 of the hand and connected to the lower unit 14, the lower unit 14 having a sensor 202 attached thereto, the sensor 202 having transducers 260, 262, 264, 266,
10 268 in operative engagement with fingers 250, 252, 254, 256, 258, the sensor 202 having a position sensor 210;

associating the position sensor 210 with an electronic sign 211 displayed on a screen 213;

moving one of the fingers to switch the sensor 202
15 from a keyboard mode to a mouse mode; and

shifting the hand 212 to activate the sign 211 on the screen 213.

2. The method according to claim 1 wherein the
20 method further comprises moving the hand 212 in a direction to move the sign 211 in the same direction.

3. The method according to claim 1 wherein the method further comprises moving one of the fingers 250, 252,

- 30 -

254, 256, 258 to engage one of the transducers 260, 262, 264, 266, 268 to reduce a length 17 of the transducer to a length 18, the length 18 being shorter than the length 17.

5 4. The method according to claim 1 wherein the method further comprises increasing a velocity of the sign 211 by increasing an angle α_1 relative to a line 11 parallel to a forearm 216.

10 5. The method according to claim 4 wherein the method further comprises slowing down and stopping the sign 211 by moving the hand 212 to a position that is substantially parallel to the line 11.

15 6. The method according to claim 1 wherein the method further comprises turning the hand 212 in a downward position relative to a line 11 parallel to a forearm 216 to move the sign 211 in the downward position.

20 7. The method according to claim 6 wherein the method further comprises increasing a velocity of movement of the sign 211 by increasing an angle α_2 relative to the line 11.

- 31 -

8. The method according to claim 1 wherein the method further comprises measuring a rotational movement of the hand 212.

5 9. The method according to claim 3 wherein the method further comprises determining which command or letter is typed by analyzing a conductivity change of the transducers.

10 10. The method according to claim 9 wherein the method further comprises analyzing movements of all fingers 250, 252, 254, 256, 258 when determining which command or letter is typed.

15